

## QUARTERLY REPORT

### Development of Dual Field MFL Inspection Technology to Detect Mechanical Damage

Date of Report: January 31, 2009

Contract No: DTPH56-06-000016 – Project A

Prepared For: United States Department of Transportation  
Pipeline and Hazardous Materials Safety Administration  
Office of Pipeline Safety

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## **Technical Status**

### **Dual Field Evaluation**

Dual field results were presented at a project team meeting held on December 2, 2008 at Enbridge's offices in Edmonton, Canada. It was attended by representatives from Enbridge, Battelle, Rosen and by PRCI (via telephone). The presentation included the results of the dual field inspection on the 30" Enbridge line segment.

- Twenty-six anomalies were individually presented to Enbridge as suggested excavation sites for evaluation of dual field tool
  - These 26 anomalies were chosen jointly by Rosen and Battelle and, in total, 21 excavation sites for these anomalies were chosen.
  - The suitability of these suggested excavation sites is being checked by Enbridge who will report back to Rosen
- Also discussed were field measurement techniques. Enbridge will provide field excavation and measurement guidelines which will be reviewed by Rosen and Battelle

The dual field report, along with associated references, excel spreadsheet containing the dual field results, and Rosen data viewing software with the decoupled signal on external hard drive were delivered to Enbridge. The next steps are excavations, comparison of excavation results with dual field tool findings and possible tool/algorithm updates based on the results of the comparison.

## **Issues, Problems or Challenges**

There are no issues, problems or challenges at this time.

## **Plans for Future Activity**

Develop an implementation plan for the field verification digs and initiate the field program for Pipeline 1. The field data will be reviewed and evaluated relative to the dual field signal as part of the assessment of the dual field tool performance.

PRCI will develop and submit a request to PHMSA for a modification to the OTA during the next quarterly period (11<sup>th</sup> quarter). The modification will request an extension of the project schedule to address the continuing work required to complete the contract milestones. There are also a number of administrative changes that need to be made to the OTA task/deliverable milestone schedule (e.g., duplicate references for items 23 and 24). These changes will be included in the proposed modification to the OTA.